

ALX1_GENERAL-#2299745-v1-Sequence_Listing.TXT
SEQUENCE LISTING

<110> IZUI, Katsura
CHEN, Limei
KATO, Nobuo
SAKAI, Yasuyoshi
YURIMOTO, Hiroya

<120> METHOD TO CONFER FORMALDEHYDE-RESISTANCE TO A PLANT, AND A METHOD
TO HAVE A PLANT TO ABSORB ENVIRONMENTAL FORMALDEHYDE

<130> 1026350-000100

<140> 10/581,861
<141> 2008-03-03

<150> PCT/JP2004/018665
<151> 2004-12-03

<160> 10

<170> PatentIn version 3.5

<210> 1
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PRIMER

<400> 1
gcttgcaagg ggtaaccatg acg 23

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> PRIMER

<400> 2
tctagaggat caggcgatcg c 21

<210> 3
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PRIMER

<400> 3
gcttgcaagg ggtaaccatg acg 23

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> PRIMER

<400> 4

tctagatccg ggtcactcga g 21

<210> 5
 <211> 171
 <212> DNA
 <213> Lycopersicon esculentum

<400> 5
 atggcttctt cagtaatgtc ctcagcagct gttgccaccc gcggcaatgg tgcacaagct 60
 agcatggttg cacccttcac tggactcaag tccaccgctt ctttcctgt ttcaaggaag 120
 caaaaccttg acattacctc cattgctagc aacggtggaa gagtcagttg c 171

<210> 6
 <211> 633
 <212> DNA
 <213> Mycobacterium gastris

<400> 6
 atgaagctcc aagtcgccat cgacctgctg tccaccgaag ccgccctcga gctggccggc 60
 aaggttgccg agtacgtcga catcatcgaa ctgggcaccc ccctgatcga ggccgagggc 120
 ctgtcgggtca tcaccgccgt caagaaggct caccgggaca agatcgtctt cgccgacatg 180
 aagaccatgg acgccggcga gctcgaagcc gacatcgcgt tcaaggccgg cgctgacctg 240
 gtcacgggtcc tcggctcggc cgacgactcc accatcgcgg gtgccgtcaa ggccgcccag 300
 gtcacaaca agggcgctgt cgtcgacctg atcggcatcg aggacaaggc caccgtgca 360
 caggaagttc gcgccctggg tgccaagttc gtcgagatgc acgctggtct ggacgagcag 420
 gccaagcccc gcttcgacct gaacggtctg ctcgccgccg gcgagaaggc tcgcgttccg 480
 ttctccgtgg ccggtggcgt gaaagttgcg accatccccg cagtccagaa ggccggcgca 540
 gaagttgccg tcgccggtgg cgccatctac ggtgcagccg acccggccgc cgccgcgaag 600
 gaactgcgcg ccgcgatcgc ctgacctga tcg 633

<210> 7
 <211> 633
 <212> DNA
 <213> Mycobacterium gastris

<400> 7
 atgaagctcc aagtcgccat cgacctgctg tccaccgaag ccgccctcga gctggccggc 60
 aaggttgccg agtacgtcga catcatcgaa ctgggcaccc ccctgatcga ggccgagggc 120
 ctgtcgggtca tcaccgccgt caagaaggct caccgggaca agatcgtctt cgccgacatg 180
 aagaccatgg acgccggcga gctcgaagcc gacatcgcgt tcaaggccgg cgctgacctg 240
 gtcacgggtcc tcggctcggc cgacgactcc accatcgcgg gtgccgtcaa ggccgcccag 300
 gtcacaaca agggcgctgt cgtcgacctg atcggcatcg aggacaaggc caccgtgca 360
 caggaagttc gcgccctggg tgccaagttc gtcgagatgc acgctggtct ggacgagcag 420
 gccaagcccc gcttcgacct gaacggtctg ctcgccgccg gcgagaaggc tcgcgttccg 480
 ttctccgtgg ccggtggcgt gaaagttgcg accatccccg cagtccagaa ggccggcgca 540

ALX1_GENERAL-#2299745-v1-Sequence_Listing.TXT

gaagttgccg tcgccggtgg cgccatctac ggtgcagccg acccggccgc cgccgcgaag 600
gaactgcgcg ccgcgatcgc ctgatacctga tcg 633

<210> 8
<211> 57
<212> PRT
<213> Artificial sequence

<220>
<223> rbcS3C

<400> 8

Met Ala Ser Ser Val Met Ser Ser Ala Ala Val Ala Thr Arg Gly Asn
1 5 10 15

Gly Ala Gln Ala Ser Met Val Ala Pro Phe Thr Gly Leu Lys Ser Thr
20 25 30

Ala Ser Phe Pro Val Ser Arg Lys Gln Asn Leu Asp Ile Thr Ser Ile
35 40 45

Ala Ser Asn Gly Gly Arg Val Ser Cys
50 55

<210> 9
<211> 207
<212> PRT
<213> Artificial sequence

<220>
<223> rmpA

<400> 9

Met Lys Leu Gln Val Ala Ile Asp Leu Leu Ser Thr Glu Ala Ala Leu
1 5 10 15

Glu Leu Ala Gly Lys Val Ala Glu Tyr Val Asp Ile Ile Glu Leu Gly
20 25 30

Thr Pro Leu Ile Glu Ala Glu Gly Leu Ser Val Ile Thr Ala Val Lys
35 40 45

Lys Ala His Pro Asp Lys Ile Val Phe Ala Asp Met Lys Thr Met Asp
50 55 60

Ala Gly Glu Leu Glu Ala Asp Ile Ala Phe Lys Ala Gly Ala Asp Leu
65 70 75 80

Val Thr Val Leu Gly Ser Ala Asp Asp Ser Thr Ile Ala Gly Ala Val
85 90 95

Lys Ala Ala Gln Ala His Asn Lys Gly Val Val Val Asp Leu Ile Gly
100 105 110

ALX1_GENERAL-#2299745-v1-Sequence_Listing.TXT

Ile Glu Asp Lys Ala Thr Arg Ala Gln Glu Val Arg Ala Leu Gly Ala
115 120 125

Lys Phe Val Glu Met His Ala Gly Leu Asp Glu Gln Ala Lys Pro Gly
130 135 140

Phe Asp Leu Asn Gly Leu Leu Ala Ala Gly Glu Lys Ala Arg Val Pro
145 150 155 160

Phe Ser Val Ala Gly Gly Val Lys Val Ala Thr Ile Pro Ala Val Gln
165 170 175

Lys Ala Gly Ala Glu Val Ala Val Ala Gly Gly Ala Ile Tyr Gly Ala
180 185 190

Ala Asp Pro Ala Ala Ala Ala Lys Glu Leu Arg Ala Ala Ile Ala
195 200 205

<210> 10
<211> 199
<212> PRT
<213> Artificial sequence

<220>
<223> rmpB

<400> 10

Met Thr Gln Ala Ala Glu Ala Asp Gly Ala Val Lys Val Val Gly Asp
1 5 10 15

Asp Ile Thr Asn Asn Leu Ser Leu Val Arg Asp Glu Val Ala Asp Thr
20 25 30

Ala Ala Lys Val Asp Pro Glu Gln Val Ala Val Leu Ala Arg Gln Ile
35 40 45

Val Gln Pro Gly Arg Val Phe Val Ala Gly Ala Gly Arg Ser Gly Leu
50 55 60

Val Leu Arg Met Ala Ala Met Arg Leu Met His Phe Gly Leu Thr Val
65 70 75 80

His Val Ala Gly Asp Thr Thr Thr Pro Ala Ile Ser Ala Gly Asp Leu
85 90 95

Leu Leu Val Ala Ser Gly Ser Gly Thr Thr Ser Gly Val Val Lys Ser
100 105 110

Ala Glu Thr Ala Lys Lys Ala Gly Ala Arg Ile Ala Ala Phe Thr Thr
115 120 125

ALX1_GENERAL-#2299745-v1-Sequence_Listing.TXT

Asn Pro Asp Ser Pro Leu Ala Gly Leu Ala Asp Ala Val Val Ile Ile
 130 135 140

Pro Ala Ala Gln Lys Thr Asp His Gly Ser His Ile Ser Arg Gln Tyr
 145 150 155 160

Ala Gly Ser Leu Phe Glu Gln Val Leu Phe Val Val Thr Glu Ala Val
 165 170 175

Phe Gln Ser Leu Trp Asp His Thr Glu Val Glu Ala Glu Glu Leu Trp
 180 185 190

Thr Arg His Ala Asn Leu Glu
 195